

## INTERNATIONAL SEARCH REPORT

onal Application No  
PCT/IB2004/051178

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G11B20/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 453 384 B1 (HAN YONG HEE ET AL) 17 September 2002 (2002-09-17) abstract column 1, line 5 - column 3, line 10 column 7, line 21 - column 8, line 38 figure 8	1,8,9
A	US 2001/044873 A1 (WILSON AARON WADE ET AL) 22 November 2001 (2001-11-22) the whole document	1,8,9
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 19, 5 June 2001 (2001-06-05) & JP 2001 057028 A (NEC CORP), 27 February 2001 (2001-02-27) abstract	1,8,9

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## ° Special categories of cited documents:

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Date of the actual completion of the international search

11 October 2004

Date of mailing of the international search report

21/12/2004

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

Initial Application No

PCT/IB2004/051178

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 6453384	B1	17-09-2002	KR	2000033180 A	15-06-2000
			AU	1186800 A	13-06-2000
			BR	9908142 A	28-11-2000
			CN	1288568 T	21-03-2001
			EP	1418585 A2	12-05-2004
			EP	1072039 A1	31-01-2001
			JP	2002530802 T	17-09-2002
			JP	2004139740 A	13-05-2004
			WO	0031737 A1	02-06-2000
			US	2002184440 A1	05-12-2002
			US	2003131190 A1	10-07-2003
			US	6788631 B1	07-09-2004
			US	2003198159 A1	23-10-2003
			US	6477126 B1	05-11-2002
			US	2004153905 A1	05-08-2004
			US	2004151101 A1	05-08-2004
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US 2001044873	A1	22-11-2001	NONE		
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JP 2001057028	A	27-02-2001	NONE		
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